

RECORD





Hill Tunnel ————— 1000

James Grant, 1000 ft. from tunnel
 1000 ft. from tunnel ————— E 1123

1000 ft. from tunnel ————— 1175

Up of highest part ————— 1225

Dry Branch, 1000 ft. from tunnel ————— 1185-1195

Dry Branch, Clinton in creek
 about 300 ft. west of highest part ————— 1175 (1180)

1. Dry Branch,

Clinton 11 inches. (Clinton is the salt
 water layer immediately below the clay)

to the top of the clay. The clay is
 brown but not the same color as the
 clay at the top of the hill. The clay is
 called "clay" and is the same as the
 clay at the top of the hill.

Physiography of the area. The clay is
 called "clay" and is the same as the
 clay at the top of the hill.

Dry Branch, cont.

Tunnel = 10 ft. 6 in.

(Clay with short layers every 5-10 inches - 5 ft. thick)

First marked short layer is 5 ft. 6 in. above tunnel

Base of Quarried Tunnel - 5 ft. 6 in. above clay

Lower clay layer = 5 ft. 6 in.

(Mostly thin courses. There is no shale at
 all. The lower layers are distinct, as the
 Clinton, are quite hard and a little like
 what I have been accustomed to call
 "shale".)

Clinton 11 inches.

{ See previous page

Blue clay soft 20 in.

(Clay is blue, sometimes varying
 towards brown. Contains the same
 fossils as the clay at the top of the hill. These fossils
 are found in a few of the layers. (These fossils
 are Clinton fossils) 4 in.

Soft clay with some brown spots.
 Base of tunnel fully fossiliferous clay layers
 (Clinton fossils) 20 ft.

Blue cherty clay - 10 ft.

2. Dady Adams by well - 124 (number)
 2. Dady Adams Quarry,
 Base of ... 4 ft.
 ... 10 ft 6 in.
 ... 4 ft 4 in.
 Belfast ... 2 ft.
 Blue shaly clay, ...
 ... 11 ft 6 in.
 Hard argillaceous ...
 shaly layers, several feet

3. ...
 Clinton 4 ft 4 in. between ...
 ...
 100 feet ...
 ... 10 inches
 The middle and lower part is ...
 ...
 It is only 3 feet thick.

5 Down Valley (E) from ...
 White ...
 ...
 Clinton 5 ft 3 in. red and reddish brown
 with thin layers of argillaceous rock, ...
 layers of the same.

6 At 2nd Falls. E of ...
 2 ft. shippings.
 4 gutter flags street crossing, ...
 2 1/2
 6 in
 6 in Spotted ...
 4 in. ...
 6 in. ...
 6 in. ...
 6 in. ...
 3 in. flag of ...
 6 in. ...
 6 in. ...

4 86 Dwyshire Falls

Small bed base.

Blue clay 20 inches.

Iron pyrites, brown 7 ft 6 in to 7 ft 9 in.

White Clinton sandstone = 1 ft 3 in.

Clinton 7 ft 3 in.

Sample I. 3 ft 9 in, below Clinton base, some pyrites.

Sample II 10 ft below Clinton base

contains more lime, at least

fossils.

Sample III. 12 ft below Clinton base

very fine grained fairly soft massive

rock, weather black. About 2 feet of it.

Below are 6 feet of material similar

to Sample II with fossils.

Next come about 2 ft of material

similar to III, which again is

more black with the more pyrites

afterwards a 1 ft. The first

at the base of the bed is 10

10 feet of material = 32 ft

Clinton = 39 ft 3 in below Clinton base

= 4 ft below to iron bed top = 47 ft 6 in

below clay bed at base of

7.

Harry Mantle Quarry W. of Jones La

(On S. side of creek there is a 10 ft bed of sandstone

Sample 12 ft clay base at bottom with

5 in A Page 11. Cloning the top of the

2 1/2 in. bed

3 in

4 in

3 1/2 in

3 1/2 in, with dark in bottom part

4 1/2 in

4 1/2 in

3 in

2 - 2 1/2 in light yellow clay

8 in dark grey 1 in. sandstone

7-9 in dark grey sandstone

7-9 in dark grey sandstone

1 ft of sandstone

30 ft 22 in of sandstone

3 ft 6 in

2 ft 6 in

1 ft 4 in

1 ft 4 in

9) 90 a. in Clinton. L. of Clinton 34 ft.
at west end of D. of Clinton
Halysites alveolatus

Clinton 30 in. about possibly 35
Probably not all reported

- 10) D. of Clinton
4 ft. Halysites
2 in. about
3 in.
4 in.
5 in.
3 1/2 in.
3 1/2 in.
3 in.
4 in.
3 in.
6 in. Halysites
2 in.
2 in. Halysites
8 in. Clinton
3 1/2 in.
4 in. Clinton
5 in.

11) Clinton about 24 in. down stream
from 80 ft. of Clinton
Clinton well shown. 24 in. back

13) At road waters of stream in a gravel
away.
Clinton 34 in.
Pterophyllum found a small sp.
of the
Arthur is small in number, but is
Halysites alveolatus
by all pterophyllum clay member
I was in
blue clay 4-5 in.
Clinton 24 in. down 34 in.
about 4-5 in. of rock back the rock
Blue clay 24 in.

The lower part of the Clinton is
a red rock but contains some
of the fossils of Clinton
The clay is of the
rock.

12) ~~Howe~~ ^{Crossed} Quarry.
Stripping 2 feet

2 in chert

2 in

2 in

3 in

3 in

2 1/2 - 3 1/2 in with chert nodules

2 in chert

4 in } flint

3 in } together

4 in with chert nodules

2 in

3 1/2 in } spotted rock

3 in

6 in

2 in

6 in

4 in

2 in

5 in

5 in

2 1/2 in

6 in

1 in

clear

11 ft 6 in low

Chert Bridge

low (13.1)

14) 1/8 mile from stream from
Crossed quarry.

Chert 3 ft 4 in to 3 ft 13 in.

thick salmon brown, red rock
at base.

Iron layers, dark colored above

15) D. S. Schist.

Stripping 7-12 feet

6 in brown

6 in brown

3 in chert

3 in chert

8 in gneiss, almost entirely covering

6 in gneiss showing a little chert

7 in spotted rock a little chert.

5 1/2 in curbing.

3 in flag

6 in curbing

4 in curbing

2 in chert

5 in curbing

5 in together

8 in curbing

many 6 in curbing

7 in. curbing
 20 in. blue clay soft
 4 ft 6 in. Same clay
 2 ft 2 in. Clinton. same brown

16) Same Mass of Quarry.

6 feet claystone
 4 in. chert { 6 in. yellow
 3 in. 11 in.
 2 in. 2 in.
 3 in. 6 in.
 1 chert 5 in.
 3 in. 4 in.
 2 6 in.
 2 4 in.
 2 in. chert 5 in.
 2 in. 5 in. same quarry
 5 in. 6 in. chert
 5 in.
 5 in.
 3 in.
 3 in.
 4 in.

opposed { 6 in.
 with
 part } 2 in. chert

16) Clinton 6 ft 6 in.

Upper part same brown
 lower part reddish.
 by all fossils in the same
 3 in. chert small banded.

17) D.S. Second 2 ft bed.

Blue clay 20 in.
 Same quarry rock, total 6 ft 6 in.

7 in.
 6 in.
 15 in.
 11 } often to range together
 9 }

5 } 25 in. same out together
 3
 3
 3
 3
 3

10 } 4 in. chert. And a lot of brown

of the clay beds. - that look there
 in and chert and weathered
 This is the Dayton series.

18. Dais, John, south of house
Clinton from 12-16 inches,
are shown but the contact is
not the contact, see next 19 loc,
see also 20 loc
19. NW of John Dais, 32 in. of Clinton,
or 2 ft 8 in. reddish or pink color,
Not common brown,
Underlain by 4 in. of blue limestone,
with *Orthis occidentalis* etc.
Favosites - *crinitus*.
" *Nagardensis*.
Cyathophylus from Dais house
20. John Dais, A short distance
up stream the Clinton is only
22 inches thick, this is the upper
locality.

21. Reibold's Falls also called
Reibold's Cave.

- 22) Dais lower Niagara
Soft clayey material 1 foot
Clinton 7 ft 2 in. Salmon color
at top and light red or pink below.
Blue clay below about 5 ft thick
Fossiferous limestone 8 ft. about
Blue clay 2 ft.
Fossiferous limestone 4 ft.
Blue clay 2 feet exposed. The
total thickness probably 5-7 feet

Holysites *extremus* etc.

28

36

32

12

4

18

12

18

12

5

32

211

12) 211 (172)
12
21
84
7

- 231 *William L. ...*
...
...
...
...
...
...
...

...
 ... 60 in ...
 2 in, white ...
 5 in, deep blue ...

6	14
16	15
9	54
18	46
12	14
7	
12	
9	
12	
9	
11	
5	
14	
6	
21	99
6	96
14	
12) 339	
24	

(28 1/4 ft.)

- 24 *...*
 5 ft. ...
 4 in.
 4 in.
 4 in ...
 3 in.
 3 in.
 2 1/2 in.
 5 in ...
 4 1/2 in.
 7 in ...
 5 in ...
 2 in ...
 8 in ...
 1 in.

of ...
 account

45

...

6 in. ...
 3 in. ...
 7 in. ...
 ...
 ... 7 1/2 to 8 ft.
 ... 3 ft 2 in ...
 ...
 Blue clay ... 8 ft. Very ...

- 25 Clinton with pebbles of a greenish fine grained clay, with some thin layers of the same Silurian. But this does not exist in the layers and lenses in the Clinton itself showing that the clay and pebbles were derived from the Clinton rather than the Lower Silurian material. The pebbles are 3-4 inches long.

Quarries occur along the stream for half a mile on both sides.

(2. S.) Secrest J. P.
Surrey

James H. Brown
Surrey
Clay

J. W. Huston

26

~~Secrest Quarry. Pebbles in Clinton 4 ft 6 in between salmon brown & bluish brown with white & brown spots.~~

27.

~~Reddish siliceous Clinton 34 in with pebbles and lenses of layers of bluish fine grained rock. The Secrest Quarry locality is somewhere between the siliceous Clinton and the more red clay Clinton of Secrest which is a brown brown above and reddish below. At the present locality 27, the Clinton is fine grained bluish brown and covered with small stones distinct by red and white spots.~~

28

~~Clinton 22 inches. Blue clay hard 4 ft 4 in.~~

RR crossing over stream. $\frac{3}{4}$ mi. east of depot at Greensburg.
 2 feet of white sparkling stone looking like sandstone & evidently very crystalline, immediately overlies the Laurel bed without the intervention of the intermediate Waldron shale.
 Above the 2 feet of sandstone are 5 feet of limestone not in nice layers but in more lenticular masses. It is fine grained and apparently also gritty as though the sandstone below turned to limestone above. The upper stone is sometimes also white but usually it is more drab.

The 2 foot sandstone contains brachiopods. *Atrypa* Dev. + *Stroph.* Dev. + *Favosites* large.

The overlying beds contain small branching corals.

7 in caps into them ^{caps irregularly.} flagging. 103
 14 in. $\frac{5}{9}$ in. flag. curb. curb. fine steps. veranda blocks.
 3 flag. curb.
 1 scale
 7. used for 5 in curb.
 17 in ledge. $\frac{7}{6}$ flag. from gutter.
 6 in curb. gutter or flag.
 9 in ledge. jail flag cellar flooring.
 4 in with flint on bottom. flag.
 9 in waste with flint.
 4 in flag.
 4 in flag.
 6 in for gutter flag. footing with flint on bottom.
 6 in of waste with flint.
 6 in gutter flag.
 5 in flinty.
 2 in scrap flag.
 7 in $\frac{4}{3}$ ~~curb~~ flag. not good for curb.
 4 flag. curb.
 13 in. $\frac{4}{6}$ gutter or flag not good for curb.
 3 flag curb. good curb.
 5 regular flag & curb.
 9 hard $\frac{7}{4}$ flag. curb.
 4 in flag. of flawy nature \approx
 6 flawed. wiggly. \approx
 4 flag curb. gray
 6 gutter flag.
 21 in ledge $\frac{4}{6}$ gutter flag.
 6 blue. = good 4 in curb.
 14 in $\frac{7}{7}$ freezes. blue.
 fire clay 16 in. / 16 in freezes. blue. Bottom

8. 10 ft. m.

J. J. Layton.

Top

crushing

& therefore for use, used for

7 feet of limestone or good bedding

3 1/2 carb.

11 Milk trough, water table steps
or chada blocks.



Mc Lee's Quarry,

dirt.

2 feet rough.

16 in. with flint on top. buff.

8 footing curb buff
8 footing curb buff

16 in. $\frac{8}{8}$ buff. bases of monuments.

4 feet. in a ledge. coarse poor bedding.
16 in iron ledge. usually not even bedded.
7 in. rubble.

monument base. piec blocks.

17 milk tough drab blue rock. bridge.
argillaceous.

9 in. curb. flag. corners.

12 in. $\frac{6}{6}$ curbs. good flag - window sills.

3 shells.

footings - flages.

18 in. $\frac{9}{9}$ steps. window sills door sills.

4 curbs all three may be worked
7 in. curb. as a two foot ledge bridge.
12 in. corner. water table bridge. steps.

4 in. curb or flag. } may be worked together.
7 in. curb. or flag }

14 in flint Not used at all.

12 in. flint. Not used at all.

6 in flint Black Diamond. almost worthless.

7 in. curb. or flag. 4 in. corners. sills. steps.

9 flint. 6 in. crossing. Indianapolis.

4 regular flag 3 in. curb. Terre Haute

11 in. $\frac{5}{7}$ curb. crossing. flagging.

6 regular. even. curb. principally flag.

14 hard. $\frac{4}{5}$ curb. flag. jail flag. window sills.
6 brand six. good for flag. bridge backing

20 in. $\frac{9}{6}$ curb. steps. fine bench fence coping
6 blue. curb or flag. jail work.

14 soft curb will not stand a freeze. $\frac{9}{6}$

12 soapstone

7 in. deep blue.

14 in. footing.

16 in.

6 in.

26 in. - would cap. twice.

12 in.

4 foot solid no sign of a cap.

Will not
stand
a freeze

B. H. Van.

Mc Lee's Quarry.

S. C. Kearr.

14 soft.

12 soapstone
7 in

Sam Hollinsbee Westport.
Miles Sample Westport ^{and Creek Co.}

Westport
1 Westport Limestone Company
Sam A Hollinsbee, Prop.
2 Hollinsbee Stone Co.
Ira. J. Hollinsbee, ^{Super.} ~~Manager~~
3 Sand Creek Limestone Co.
M. H. Sample Pres.
A. H. Stout Sec.

4 A. A. Mc Ell Quarry.

Indiana
Crawfordsburg
Harper Co.

1 Geo. Munis Quarry
2. Bricourt & Bros.

Greensburg Limestone
Greensburgh.
Samuel B. Ward.

Bookkeeper & Treasurers.

New Point
1 John J. Putnam, Prop.
New Point Big Four Quarries.
2 Eureka Quarries at New Point.

St. Paul.

1 Harry Adams Indianapolis.
Builders Exchange.

2. John Scanlon Quarry.
Cincinnati.
Scanlon & Hinsdale.
Partners in quarry.

Samuel.

~~Samuel~~
Cox at Holt m need to
do a big business.

Geo. Ashman need to do a
big business. ^{at work} Osgood

W. F. Robbins at Letts Cor-
ner need to do a big business.
about 4 mi. S. of Greensburg
quarries about 1/4 mi. below
Sayton's quarry.

Westport.

Westport Limestone Co.
H. J. Freston, Superintendent.

(x iron ledges place)
(12} eroded away.)

47 No iron ledge struck,
52 ft. dirt.

6 in. curb & flagging.

16 in. $\frac{5}{11}$ curb
footings, light bridge stone,
sills, caps &c.

9 step ledge, very fine, steps.

18 in. $\frac{9}{9}$ footings & bridge stone.

12 in. ledge, very fine, fine block stone.

7 in. flag ledge, no flint.

9 in. good stone, circular curb,

bottom of next lower ledge.

about $\frac{1}{2}$ to $\frac{3}{4}$ in. sticks on to

about 3 in of flint on bottom.

12 flint ledge, has flint at bottom

$\frac{4}{5}$ rough side walk.

9 in. a little flint on top.

12 in. flint ledge, footings.

9 circular curb.
hard, good. flag. footing.
9 scrap flag ledge, crossings.

11 in. $\frac{4}{7}$ curb & flag. footings.
5 blue. curb. flag. smooth.
mostly for bridge stone.

14 in. hard, $\frac{4}{6}$ curb & flags.
6 in. ft. curb. & flag.
 $\frac{1}{2}$ shells no good.

9 flag. curb. sills. caps.
21 $\frac{6}{6}$ steps, bridge stone
when not capped.
side walks.

6 in. blue. curb & flag. jail. stone.
 $\frac{7}{7}$ curb. flagging. bridge stone.

14 in. blue. stone we altering.

14. Stone soap.

no account. Both Mr.
Freston.

William H. Kepler. S end of Decatur
county. Walden shale with 2 feet
of buff limestone argillaceous above it
and a quartzitic & cherty layer above
with many corals especially the
smaller branching kind.

Northward

6 in. of less finely stratified buff
laminar rock is found beneath.
The last three layers consist of
very few fossils.

13 in. of buff or blue argillaceous
with many fine horizontal cra-
ckles with calcite.

12 in. argillaceous buff or blue lime
with irregular calcite masses.

12 in. argillaceous limestone blue
with fine regular cracks filled
with calcite, also small calcite specks.

11 in. argillaceous limestone.
24 in. argillaceous limestone
Calcite in irregular masses
peaks.

The lower half of these argilla-
lous layers consists of somewhat better
stone than the upper half.
The irregular lined contact
between the fossiliferous limestone and
the finely stratified fine grained
rock below should be photographed.

Farther eastward the upper
feet of this series are seen to be
buff & argillaceous & greenish
the lower 4 1/2 feet beneath
is a white rock which you

The lower beds are of a
rate of weathering and color like

6 in. of less finely stratified buff
laminar rock is found beneath.
The last three layers consist of
very few fossils.
13 in. of buff or blue argillaceous
with many fine horizontal cra-
ckles with calcite.
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between the fossiliferous limestone and
the finely stratified fine grained
rock below should be photographed.
Farther eastward the upper
feet of this series are seen to be
buff & argillaceous & greenish
the lower 4 1/2 feet beneath
is a white rock which you

out in great massive blocks,
which are still practically un-
fossiliferous, a fine close bedding.
is however shown in capping the
rock.

12) $\frac{228}{108}$ 19 ft.

Below the quarried rock are
3 1/2 feet ++ of very closely banded
argillaceous limestone.

4-5 feet with corals. Devonian?
limestone.

Very fine grained buff limestone
like that quarried at Geneva for
lime. Of course I do not know
whether it is the same or yet.

32 in Below the quarried rock are 32 in
of closely banded rock

12 in rather massive running below
into rock with very conchoidal
fracture in which are poor re-
mains of many corals.

ack shale

irridal layer

ish Teth &c

ement rock equivalent. brach.

19 ft.

~~With Varian from rock~~ } Not
good with Varian limestone } exposed

3 1/2 ft.

4-5 ft.

argillaceous limestone

26 1/2 feet

Dev. corals. Coniforms.
Fine grained buff limest.

47) 38. (9 5 1/4 8 1/2
38 2
52
47) 40 (9 46 8
33 2
52
47 18
2 1/2
3 6 1/2
40 1/2
48 3/4
50

corals

light brown above. darker below. massive
in massive slightly fossiliferous below corals.
is of dark brown rock. more massive than
of rock which weathers back. brown
Does down about to 4 1/2 layer at

out in great massive blocks which are still practically fossiliferous, a fine close banded layer shown in capping rock.

12) ²⁸ 19 5' 10 8

Below the quarried rock 3 1/2 feet ++ of very finely argillaceous limestone.

4-5 feet with corals. Dev. limestone.

Very fine grained buff lime like that quarried at Geneva home. Of course I do not whether it is the same as y

9 1/2 1/2 2 1/2

32 in Below the quarried rock are: of closely banded rock

12 in rather massive running b into rock with very circular fracture in which are poor numerous, many corals.

Black shale

~~31 feet below RR.~~

- 4ft Crinoidal layer
- 1 1/4 ft Fish Teeth &c
- 3 2/3 ft Cement rock equivalent. brach?
- 4 1/2 ft ~~North Vernon fine rock~~ } not exposed
- 4 1/2 ft good North ~~Vernon~~ limestone
- 3 1/2 ft argillaceous limestone
- 4-5 ft Dev. corals Coniformes.
- Fine grained buff limest.

25 1/2 ft

44) 38. 5 5 1/4 8 1/2
38 8 1/2
52 9
40 18
38 2 1/2
36 1/2
40 3/4
48 3/4
50

corals

- 10 feet light brown above. darker below.
- 4 feet 6 in massive slightly fossiliferous below corals.
- 7 feet 2 in of dark brown rock. more massive than
- 2 feet of rock which weathers back. brown
- Dips down about to 4 1/2 layer at

- ~~12-18~~ irregular used for rubble curb & sidewalks.
- 4 runt flint in any ledge in quarry
- 11 (6) 5 curbs.
- 8 footing, some flint.
- 14 7/8 curbs. ~~laid~~ any flint.
- 10 5/5 curbs, both with flint esp. the
- 6 footing & rubble, side walk.
- 8 footing & rubble only, a little flint, flag.
- 11 4/7 curb good
- 11 4/7 sidewalks.
- 11 4/7 curb gutter st me too cappy
- 5 curb. sidewalks
- 9 curb water table ashlar
- 8 curb water table. ashlar.
- 3 1/2 sidewalk flagging. 3 in curb.
- 9 curb. sills. water table all dressed work.
- 16 curb capped used for 12 in water table cap & piers etc. 8 trim to 5. flag & curb.
- 10 curb. all dressed work water table gutter.
- shaly stuff

Alfred Ashman.

A. B. Ashman & Co.
 South west corner 9th & John
 Cincinnati
 as good - Cincinnati is on a map 16

North corner see book 189
 next page

- 2 ft 9 in at one weathering in
- 6 in with Favosites somewhat rounded
- 1 foot
- 4 in small fragment much rounded
- 1 foot 6 in
- 1 foot with corals
- 1 foot 6 in with corals at top
- 1 foot with numerous corals.
- 2 feet 8 in. with much corals at top & bottom
- 7 ft 9 in of massive rock
- 4 1/2 feet black & white corals
- 3 feet 6 in. layers of corals
- 8 in. corals
- 14 in. corals
- 5 1/2 in. corals
- 14 in. and small corals

North of Crown
top

Black shale.
 1 ft 6 in. of ...
 2 ft 6 in. of ...
 4 ft 2 in. of ...
 8 in. of ...
 1 ft 6 in. of ...
 14 in. of ...
 3 ft 6 in. of ...

West port. S. Cor

12' densely crinoidal white rock.
 14' Argood clay soapstone.
 15' Projecting ledge a few crinoid stems
 4° 6' Silurian merging downward
 3° 10' Madison like clay rock.
 14' quite solid light brown rock. Clinton
 level but not Clinton
 Lower Silurian.

Top of quarry 6 in ledge is
28 1/2 feet above Lower
Silurian.

Top of quarry 6 in is 49 1/2 feet
and top of Lower Silurian is 77 3/4 ft
below Railroad level at
West port. To this add
about 1 ft in each case
making to R. level take
2 squares S of dep.

~~122~~

Harris

6 in. curb or flagging good curb light gutter.

4 in. solid. 4 in curb. 3 1/2 curb. two shells in bottom.

7 in. curb + flagging.

curb. crossing.

walk. jail flooring + ceiling

5 in. not much iron. flagging side more durable than the lower ones.

21 in	{	1 1/2	shell
		9 1/2	water table. range. pier caps.
		6	curb + flagging mostly.
		5	

1 in shell.

not good for side walk. soft.

jail flooring. cellar flagging.

6 in blue six. side walk flagging pier blocks. blue.

good only for inside work.

will not do for outside work.

14 soft 7/8 6 curb. gutter. jail flag.

12-14-16 soapstone

B. T. M.

upper Harris

~~123~~

bases piers bridge work.

16 in. milk to upper. fine for flint.

9 in. good for flagging. clear.

18 in bridge bases.

table + c.

caps in use for range. water work pier blocks + after

17 in. 7 work together on bridge

12 in. cap pier block. pier cap.

9 in. range water table. good solid.

8 in. 4 curb. no flint.

curb.

7 in. good solid. no flint. flagging

7 gutter + curb. a few spots of white flint.

13 in. bridge work.

5 in. curb or flagging. no flint.

leave flint.

caps in 12 varying. begins to

32 cheaper grade of stone. footings.

begin to have flint.

4. very good curb. good for after caps. 7 not good for curb. flagging.

11 in. side walk flagging. lower

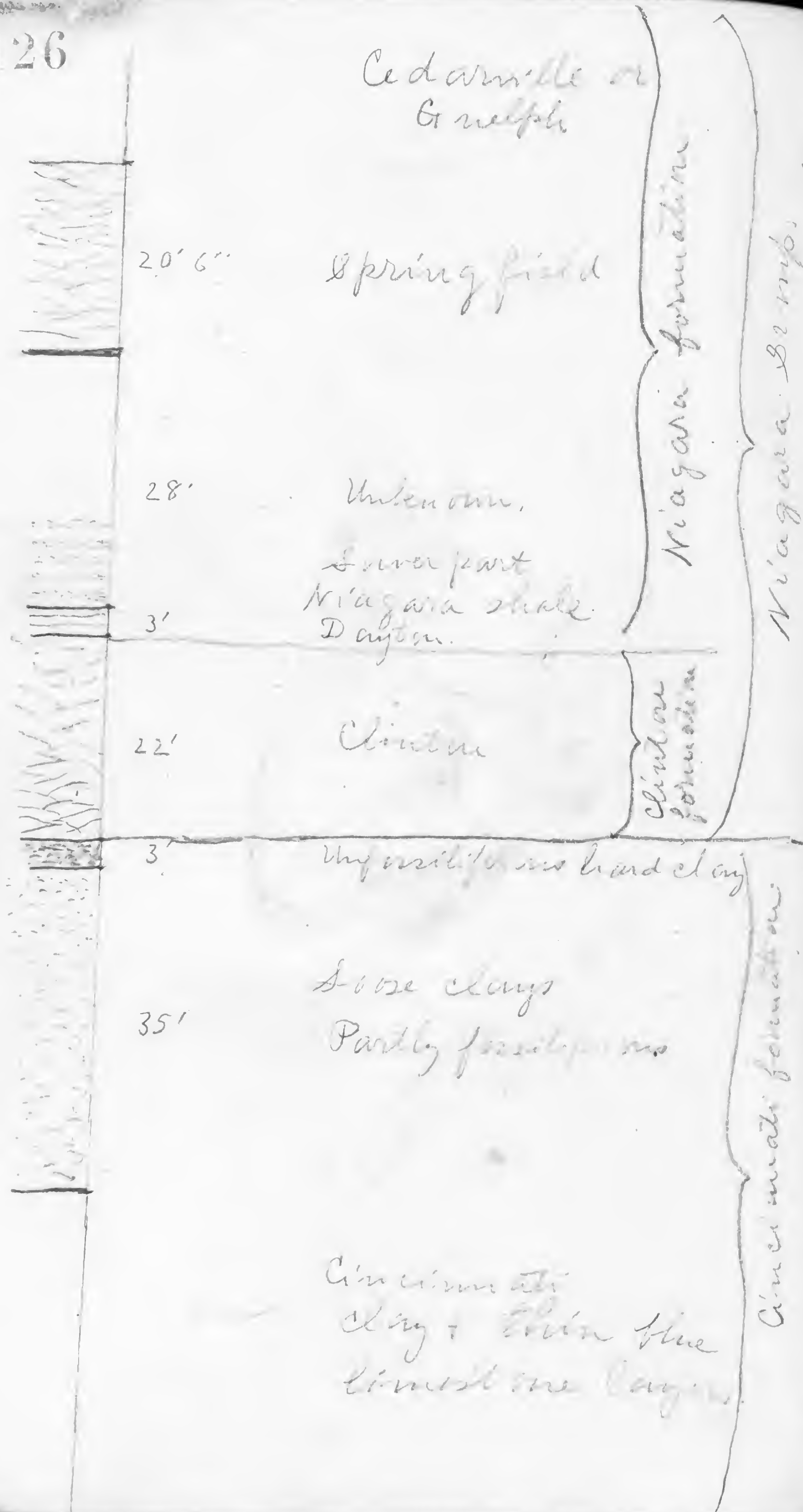
~~Climax top 22' below
Dreary top. Saylors
M. l. Five readings
alike.~~

~~Harris~~

~~iron ledges 3 1/2 nearly 4 foot
18 in. ridge. block stone: base.
5 in ledge. flagging.~~

Fayton top. North of Boardman
East of road,





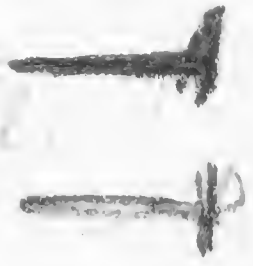
Upper Silurian
Lower Silurian

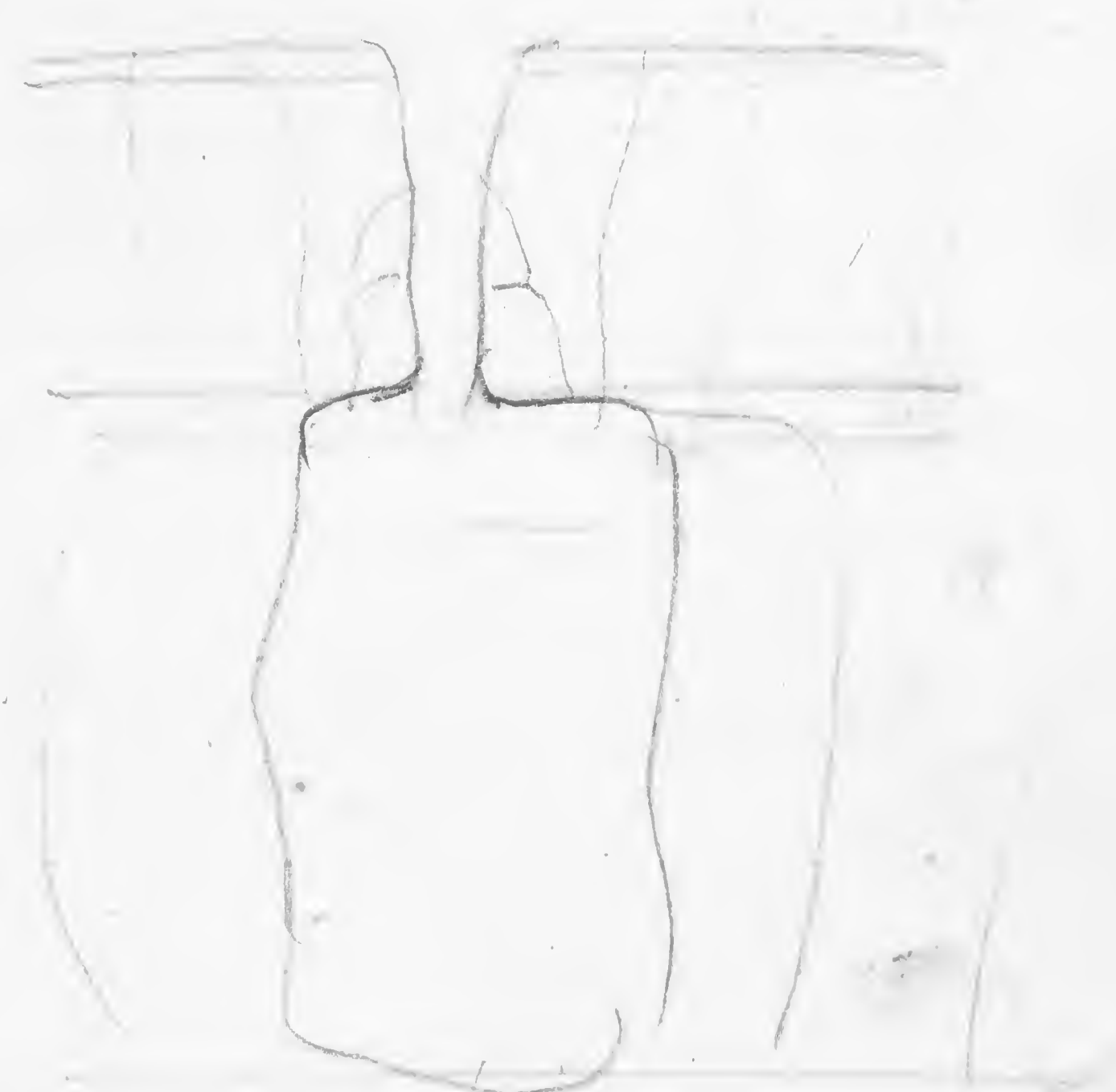
Lower Silurian Upper Devonian

- Sower. Helderberg
- Hillsboro sandstone
- West Union stone
- Snellph. Adamsville
- Springfield
- Niagara shale
- Dayton
- Clinton

- Cincinnati
- Durbin
- Black River
- Chazy

- Carboniferous







Drugs



I. Mini. south of Sp. 1000
Top of LS. 945,

II. Top of LS. 933.

Lower Silurian

2 ft 8 in Gray Coniferous crinoids 2 ft
(Dark brown Coniferous 8
Black shale.

12. Top of LS 920,

Black shale

12 in { Brown Coniferous with a
few crinoid fragments,
Columnal joints near top

of LS.

Medium beds below,

13. Top of LS 912

Black shale

No Coniferous in this shale
very much more cherty
Chin. fragments only,

enough to suggest about 1-1 1/2 feet
of Chin. of that ranch,
L.S.

14. Top of LS. 892

1 1/2 Chin.

Coniferous 3 ft
Black shale

15. Top of LS 890

Chin. 6 feet certain

covered 3 ft 2 in.

2 ft 6 in { gray Coniferous crinoids 22
dark brown Coniferous 8 in
Black shale

3 ft Top of Lower Silurian here white shale

16. Top of LS. 887

Chin. 6 ft,

Lower Silurian 3 ft 6 in

5 ft 6 in Dark brown Chin. — 14

Gray Chin. — 52 in
Black shale

17. Top of *Corymbium* 892
 Gray *Corymbium* 18 in of face
 Dark brown. Corn. 22 in.
 Black shale.

101 5 ft below top of LS band
 under the claygy shale
 below.

Top of LS 875
 Highest Clinton seen 15 ft 5 in.
 Not exposed 11 ft.
 Gray crinoidal *Corymbium*
 at least 15 in. from top
 at least 12 in. of dark
 brown rock.

Black shale.

None of the section above
 the last Clinton is
 present.

Hotel Payson 875
 gone up 15

863
20

18. Top of LS 840.
 Clinton 8 ft 4 in.
 Fine *Corymbium* clay.

19. Top of *Osgood* clay 863.
 Thickness of *Osgood* clay
 not known.
 Gray crinoidal Corn. 8 ft.
 Dense brown st. Corn. 8 in.
 Black shale.

20. Top of LS 840
 Top of lower rock above Med-
 iron. About 1 ft thick.
 Clinton 7 ft.

Same *Osgood* clay (see)
 21 Upper *Osgood* clay by
 Thickness of All *Osgood* about 47 ft 28
 Lower *Osgood* 9 ft 2 in
 Crinoids.

No *Corymbium* seen.
 Black shale.

7
 38
 29
 55 ft.

22. Osgood limestone 1 ft 8 in.
 Upper Osgood clay 1 ft 6 in.
 Sand limestone 16 ft
 Cornif. not recognized
 Black shale = Bottom = 890

23. Osgood limestone 1-1 1/2 ft
 Upper Osgood clay 2 ft 4 in.
 Sand limestone 4 ft 6 in.
 No Cornif. fossils
 Black shale
 Bottom of Black shale 871

24. Sand limestone 7 ft 6 in.
 No Cornif. fossils
 Cornif. 875

25. Sand limestone 6 in.
 Grey chert Cornif. 5 in.
 Black shale
 Bottom of Black shale 865

26. 18 in. Osgood limestone
 14 in. Upper Osgood shale
 7 ft Sand limestone
 4 in. grey chert Cornif.
 Black shale
 Bottom of Black shale 855

27. Chert 6 ft 2 in.
 Osgood shale 26 ft 6 in.
 Cornif. grey chert 20 in.

Top of Bottom 837
 Cornif. from about northward
 Present northward
 D. netts reaching away by
 percolating waters?
 Strong dip Northwards
 5 ft 6 in. in 49 ft pos.

28. 805 Black shale on
 Sand limestone

29. Top of Osgood shale 810
 Sand 20 ft

30. Bottom of Black Shale 835.
 ? Sand limestone
 ? Base of Sand limestone 835

31. Top of Sand limestone, just
 below Black Shale 853.

32. Bottom of Black Shale 863.
 Dark brown Crin. 8 in.
 Grey crinoid Crin. 2 ft. 8 in. Crinoid
 Top of Sand.

33. Base of Black shale 830.
 No Crinif. identifiable.
 Base of Sand limestone 922.
 quite a distance north
 ward. south about.
 Top of Clinton 902.

800
 34. Hard rock top of LS 6 ft 4 in.
 Base of Clinton 885.
 Clinton about 13 ft.

35. Strongly bedded strata
 Septarian columnar beds
 Clinton 14 ft certain.
 possibly 17 ft not certain
 about comes in as to
 just where it separates
 the LS. Top of the
 lowest part layer = 14 ft.
 Base of bedded layer = rubble,
 Top of Clinton 764
 Top of bedded limestone 729
 Thickness of bedded limestone 5 ft 6 in.

36. Base of Black shale. 945.
 on Sand limestone

37 Top of Black Shale 1020.
Mudstone layer here,

38. Black Shale in a very fine
grained clayey rock at 932,
About 15 in thick.

The Coniferous gray Crinoid
bed is about 4 ft thick,

39 Base of Black shale 1000.
Dark brown fine grained rock
about 2 feet.

Gray/creamish Crin. Bed
not seen. Only 1-2 feet
visible.

Sandstone beneath,

40. Top of Sandstone? 982 979.
N. dip. Sandstone 3 ft.
Osgood layer Osgood shale 2 feet
Osgood limestone 22 in,
Lower Osgood shale
Top of Black Shale 1030.

Shut down

SE of Holy Cross Church,

41 Clinton thickness not known
Lower Osgood clay 38 ft

See last section
for note. And in can not be
seen 11 feet away from road

42. Top of Columnar bedded
Lower Madison 990.

Top of heavy stone above
Madison 1008.

Clinton fragments above but
the main part is brown

43 Top of Black Shale 1052

Dark brown rock 1 foot

Crinoid. crinoided 8 in,
Clinton thickness 6 feet.

W. from a few hundred feet
going with road it runs
out. The thinning out can
be readily traced.

Top of Madison. Thick beds
above Madison 11 feet.

N. dip

44. Slatton 1075

15

Hard limestone above

Clinton 5 ft 6 in

Clinton 6 ft 2 in

Dark brown Clinton 1 ft

Black shale

19,

At least 11 feet of hard
rock at top of same set.
Clint in 3-5 feet?

Dark brown Coniferous
strata, S dip.

1208 Columnar bed top 1170
Shale with fossils.

1205 Hard limestone layer.

1202 Light brown shaly shale in 1170.

1192 Dense hard limestone layer 1172

1190 Light brown shaly shale in

1170.7 Thin layer fossils 1150

1178 Thin shale in shale, 6 ft.

1168 Low fossils 1151

1164 Shale with fossils

11 Wet shaly, shaly, in shale
1 1/4 ft from base of bed
Columnar bed

Light brown clay shale, columnar
- dense, shaly shale in

Hard banded shale in
very brown shaly 8 1/2 ft.

Shaly brown 5 ft.

Hard brown limestone with 10 ft.

base
1202 Clinton? 4 ft 2 in,

1 foot of others local layers?

16 feet of Clinton shale layer

Top of Clinton in area west of
 creek bottom 1280.

Clinton Clinton base
 of rock ~~150~~ is 70 feet
 above Clinton base east
 of road.

2 Clinton 1260

2 1/2 miles from 4 roads
 1/2 mile E of McQuire's
 rd.

Strophomena pallens

Orthis flabellum

Orthis elegantula

Pterinea trisa

Orthis bifurcata

3.

Clinton 1262

Orthis flabellum

Clinton 7 ft thick

Lower Argood clay 4 1/2 ft.

Davonian clay 10 ft thick

until only the clay is left

4 Clinton 1218 Top of road

5 Clinton 1175 near Fredericksburg town

Fredericksburg

6. Lower limestone 4 ft thick at road

Top of Waplesburg shale 1121

Argood limestone 1 1/2 ft?

Lower Argood shale 50 ft thick

7 Top of Clinton 1076

Clinton 17 ft thick in road

Argood base 2-3 ft.

9 ft in rock massive LS?

Tetradium bed in greenish clay
 rock

8

~~Worms flat~~~~Other specimens~~~~Specimens of~~~~Other specimens~~~~Spirifer~~~~Had rock at top of 12 ft~~~~crinoid~~~~Strophomena~~~~Trilobites~~~~Chinle 13 ft 10 in~~~~Hypodonta~~~~Other specimens~~~~Cyathophylloids~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~~~Strophomena~~

9

1185 Still Magellan limestone.

Not certain whether any

Waldron shale in this

region or proper exposures.

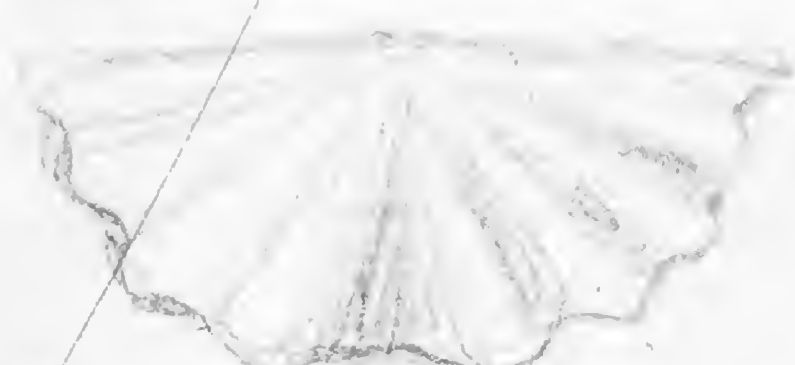
10 1200

Coniferous?

11

1205 Top of S. sand. Base of

Waldron Shale.

~~Trilobites~~~~Strophomena~~~~Rhynchonella~~

12.

Calymene Magallensis near top
of Sirex limestone.

Tom Mann cross on

B. W. Humphrey place

N. of Sirex limestone

13. 1070. Base of Clinton.
West of *Basilidium* and
above clay.

14. 1080. Base of Clinton.
West side of second creek valley,
west of *Basilidium* zone.

15. Top of Clinton 1050
22 feet
Section west of stream
As good clay layer.
Thin layer of clay at
various levels in lower 2-3 ft.

Thin clayey shales.

About 1 foot of clayey rock is
regarded as the *Cymenensis*, un-
doubtedly strongly calcareous
to be 22 ft above Clinton.

2 ft. Upper Ogish clay.

Cymenensis *Megaceras* at 33 ft.

42 ft top of good sandstone
stone.

At 47 1/2 is a 1/2 foot good layer
of clay and above there
is Walden shale at 48 feet.
Walden shale about 10 feet
to very little *Spirifer*, possibly
only 1-2 feet.

Cedar Creek.

Cedar Creek Hill.

Port Barnes.

5 miles W of Barnston.

7 miles E of Barnston.

16. 2 miles S of Cedar Creek.
Ogish limestone with
Altrypa *reticulata*.

22 feet of *Spirifer* *typicus* sand.
About 2 feet higher to *Spirifer* *typicus*.
2 feet of top of *Spirifer* *typicus*
is *Spirifer*.

~~From west of~~

101

8

5 in.

17

At Littleham Lane,

Bare of Walnut from 1043

Walton shale 12 ft. possibly 13

4 mi. N. of Littleham Lane

4 1/2 mi. east of Boston

atrop. pale inf. narrow form

Rhy. chert with white spots

18. 1035 top of Laurel

3 1/2 miles E of Boston

19

13 ft. cert. am. of Littleham Lane

5 ft more ~~possible~~ within

2 ft. crinoidal grey con.

art. con. ? May be

more

38 in. of dark brown

con. with white crin.

stems from

Black shale 1040

Andie Mobley 3 miles

Boston

Total Devonian 5 ft 6 in

Top of Laurel

Walton shale 1043

20

In Louisville Laurel

is found in Laurel

Halys to calculate

1040 top of Dev. Coniferous

after rain

About 2 1/4 miles east of Boston

Chas. Blakely

2 1/2 miles E of A. house

21

A little south of the road

2 1/2 mi. among some cedar trees

East of gully east of Chas

Boston Blakely Coniferous 5 feet

top of Louisville Laurel

5 bars of black shale well

shown

The locality is found

about 3 1/2 miles east of here

Boston 1000

Benton.

22 S with of creek 5 mi. N. W.
 Limestone about 5-6 ft.
 Corniferous 1000. Black
 shale.

23, One mile east of Belleville
 road. Limestone at top
 of Laurel limestone 2 feet thick,
 983.

Madison shale 13 feet!

1 mi. N. E. 13 feet!

Corniferous 5 feet!

Black shale 1012.

Dalmanites hemisphaerica

Spirifer crispus

Platystrophia pygmaea

Atrypa reticularis

Orthis asperulata

Rensselaeria

in rock just below Madison
 shale

West of river to the Rogers,
 West of the creek,
 Rogers Creek

24. Top of Laurel limestone,
 1008. Acolitic layer.
 1/2 mi. E of the Edie Rogers

25 Acolitic layers at top of
 Laurel limestone

26. Top of Clinton 985
 Shicklandia. Short distance
 S of road come with house.

27. Top of Corniferous 1065
 About 1/2 mile E of 26.
 Black shale above.
 Thinness of thickness of Cornifer-
 ous - 3 feet.
 Corniferous in upper section

28. Hard irregular clayey rock -
 Madison.

More regular than Silurian -
 9 feet.

Clinton 13 feet
 Spire Rogers 26, Corniferous in upper
 section

Continued

Orthis sp. *antidote**Orthis* *aperta*29. W. of Cornifer base of
Black Shale 1110.

Burdigom

Witham *antidote*

Buffalo

Cedar

1. Corniferous base 1008.
2. Fogel's hill 2' S. of
Seban. Base of Black Shale
is at 1022.

Thin bedded Madison directly
overlain by corniferous.
10 feet at base sparingly cherty,
and parts quite blue. 2 feet very
cherty. 2 feet dark brown. Total 14 ft.

Rocks dipping so strongly south-
ward that several hundred feet
southward the Black Shale
base level has fallen to 960.
The anticline is N of 2.

(870)

3

Light blue clayey Madison beds
with *Tetradium* at 5 ft 6 in. Mad-
son rocks up to 26 ft in
Berling Fork. Top of upper Madison at
878. Black Shale not seen.
N of river N of chert clay the Shale

shale descends to 870 and in
 of Clinton area. Synclinal
 N of river,

4^W. of Culver's center in stream bed,
 Top of LS at 880. Coniferous
 is 8 ft 4 in thick, overlaid
 by black shale. Conif. rest
 directed by in the Madison.

5 RR cut at road crossing top
 of LS 870. Coniferous &
 Black shale exposed in cut.

6 Two miles N of Rolling Fork
 is a deep gully cut by stream.
 Down the stream the base of black shale
 is seen at 902. Coniferous thick
 8 ft 7 in. continuous. No LS.

7 Continuing down stream
 to the creek, going down
 the creek, the creek runs for
 a time on Black shale
 and then into through to the
 Coniferous. Base of Black
 shale at 885.

8. Base of Black shale 880
 Coniferous 3 ft 1 in
 Black shale.

Coniferous rest in Madison

9. 857 - level between Black
 shale & lower part of con-
 iferous.

10 Dam near New Market
 860 Base of Black shale
 resting in Coniferous.
 Coniferous is 3 feet thick
 and rests on Madison
 direct.

Rocks dip west LS 6 feet
 at dam 0 at west end of gully
 thin.

11 About a mile east of the
 junction of Stearns Creek
 and the Rolling Fork, the base
 of the Black shale is seen at
 875.

12. An early *Leptaena* dam
stream the *Coniferus*
rests on the Madison at
848. The top 4 inches contain
LS fragments. The rest is
very Madison like. The
Coniferus is 9 ft thick.
Black shale. The top
is quite strong and is
more than the lower part
green indicates.

13. Black Shale 90s
Coniferus mostly 10 ft.
estimated.

Leptaena is shown in the lower part
of the shale. The lower part
is more like the lower part of the
shale.

The *Leptaena* is shown in the
more to the right. The lower part
the *Coniferus* is 10 ft. at the
most. The lower part is more SE

of the road (14) the *Leptaena*
is just below the
Coniferus while farther
eastward it is 8 feet or
more below the *Leptaena*.
bedded at 12 ft. will be
remembered the *Coniferus* is
in the lower part of the Madison.

15. Base of Black Shale 915
Coniferus. Thick.
Rests on lower Sil. ~~of~~
~~forming~~ the Madison bed.
1/2 mile west of pit
Strong E dip of Madison
shown farther E on
W side of road.

9. 962. Base of Black
Shale

